

Title (en)

METHOD FOR PRODUCING AN IMAGE OF THE SURFACE OF THE EARTH FROM A MOVING CARRIER AND A DEVICE FOR IMPLEMENTING SAME

Title (de)

VERFAHREN ZUR ERZEUGUNG EINER ABBILDUNG DER ERDOBERFLÄCHE VON EINEM SICH BEWEGENDEN TRÄGER UND VORRICHTUNG ZUR UMSETZUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ POUR OBTENIR UNE IMAGE DE LA SURFACE TERRESTRE À PARTIR D'UN SUPPORT EN MOUVEMENT ET DISPOSITIF POUR SA MISE EN PRATIQUE

Publication

EP 2866090 A4 20150624 (EN)

Application

EP 13807562 A 20130611

Priority

- RU 2012125799 A 20120621
- RU 2013000483 W 20130611

Abstract (en)

[origin: EP2866090A2] The method and a device for obtaining the Earth's image from a moving carrier are provided and relate to remote sensing of the Earth, specifically, to aerial photography, and can be used for photogrammetry, monitoring of vast areas and extended objects, large-scale mapping surveys and engineering design and surveys. The method provides Earth photographing at an angle to the vertical, which gradually increases toward the ends of the frame's longer side oriented transversally to the flight direction. During the formation of subframes making the frame of central projection, all photo sensors are exposed simultaneously, and the frame's bandwidth to length ratio is maintained at the 1 : 5...100 range. The device comprises photo sensors fixed in a holding fixture in such a way that, their optic axes projections onto a vertical plane are at an angle to the vertical, said angle unidirectionally varies from one photo sensor to another by the amount not exceeding the projection of the photo sensor view angle to said plane. Projections of said photo sensors' optic axes to another vertical plane, perpendicular to the first one form an angle that is no larger than 50 % of the projection of the photo sensor view angle onto this plane, thus ensuring high performance of the survey with concurrent improvement of the quality of the output image.

IPC 8 full level

G03B 37/04 (2021.01); **G01C 11/02** (2006.01)

CPC (source: EP US)

G01C 11/02 (2013.01 - US); **G01C 11/025** (2013.01 - EP US); **G03B 15/006** (2013.01 - EP US); **G03B 37/04** (2013.01 - EP US); **H04N 23/73** (2023.01 - US); **H04N 23/80** (2023.01 - US); **H04N 23/90** (2023.01 - EP US)

Citation (search report)

- [X1] US 2007046448 A1 20070301 - SMITHERMAN CHESTER L [US]
- [A] US 2004114038 A1 20040617 - LOUIS PIERRE [BE]
- See also references of WO 2013191583A2

Cited by

CN106595598A; CN109196441A; US11137776B2; US12019458B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2866090 A2 20150429; **EP 2866090 A4 20150624**; CA 2876186 A1 20131227; RU 2498378 C1 20131110; US 2015185006 A1 20150702; WO 2013191583 A2 20131227; WO 2013191583 A3 20140227

DOCDB simple family (application)

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